SEQUENCE LISTING

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<130> 18/MG

<140> PCT/GB2003/04310
<141> 2003-10-03

<150> GB0223399.7
<151> 2002-10-09

<150> GB0302604.4
<151> 2002-02-05

<150> GB0304064.9
<151> 2002-02-22

<150> US60/475784
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Pro Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Pro
20 25 30

<210> 2

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<213> Homo sapiens

<400> 2

Asp Ser Asp Val Tyr Ile Thr Asp Lys Thr Val Leu Asp Met Arg Ser
1 5 10 15

Met Asp Phe Lys
20

<210> 3

<211> 20

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<213> Homo sapiens

<400> 3

Gln Ser Lys Asp Ser Asp Val Tyr Ile Thr Asp Lys Thr Val Leu Asp
1 5 10 15

Met Arg Ser Met
20

<210> 4

<211> 20

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<213> Homo sapiens

<400> 4

Asp Ile Gln Asn Pro Asp Pro Ala Val Tyr Gln Leu Arg Asp Ser Lys
1 5 10 15

Ser Ser Asp Lys
20

<210> 5

<211> 20

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<213> Homo sapiens

<400> 5

Asp Pro Ala Val Tyr Gln Leu Arg Asp Ser Lys Ser Ser Asp Lys Ser
1 5 10 15

Val Cys Leu Phe
20

<210> 6

<211> 20

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<213> Homo sapiens

<400> 6

Asn Gly Lys Glu Val His Ser Gly Val Ser Thr Asp Pro Gln Pro Leu
1 5 10 15

Lys Glu Gln Pro
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<210> 7

<211> 20

<212> PRT

<213> Homo sapiens

<400> 7

Ala Leu Asn Asp Ser Arg Tyr Ala Leu Ser Ser Arg Leu Arg Val Ser
1 5 10 15

Ala Thr Phe Trp
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<210> 8

<211> 20

<212> PRT

<213> Homo sapiens

<400> 8

Pro Pro Glu Val Ala Val Phe Glu Pro Ser Glu Ala Glu Ile Ser His
1 5 10 15

Thr Gln Lys Ala
20

<210> 9

<211> 20

<212> PRT

<213> Homo sapiens

<400> 9

Lys Glu Val His Ser Gly Val Ser Thr Asp Pro Gln Pro Leu Lys Glu
1 5 10 15

Gln Pro Ala Leu
20

<210> 10

<211> 20

<212> PRT

<213> Homo sapiens

<400> 10

Val Phe Pro Pro Glu Val Ala Val Phe Glu Pro Ser Glu Ala Glu Ile
1 5 10 15

Ser His Thr Gln
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<210> 11

<211> 91

<212> PRT

<213> Mus musculus

<400> 11

Pro Tyr Ile Gln Asn Pro Glu Pro Ala Val Tyr Gln Leu Lys Asp Pro
1 5 10 15

Arg Ser Gln Asp Ser Thr Leu Cys Leu Phe Thr Asp Phe Asp Ser Gln
20 25 30

Ile Asn Val Pro Lys Thr Met Glu Ser Gly Thr Phe Ile Thr Asp Lys
35 40 45

Thr Val Leu Asp Met Lys Ala Met Asp Ser Lys Ser Asn Gly Ala Ile
50 55 60

Ala Trp Ser Asn Gln Thr Ser Phe Thr Cys Gln Asp Ile Phe Lys Glu
65 70 75 80

Thr Asn Ala Thr Tyr Pro Ser Ser Asp Val Pro
85 90

<210> 12

<211> 126

<212> PRT

<213> Mus musculus

<400> 12

Glu Asp Leu Arg Asn Val Thr Pro Pro Lys Val Ser Leu Phe Glu Pro
1 5 10 15

Ser Lys Ala Glu Ile Ala Asn Lys Gln Lys Ala Thr Leu Val Cys Leu

20 25 30

Ala Arg Gly Phe Phe Pro Asp His Val Glu Leu Ser Trp Trp Val Asn
35 40 45

Gly Arg Glu Val His Ser Gly Val Ser Thr Asp Pro Gln Ala Tyr Lys
50 55 60

Glu Ser Asn Tyr Ser Tyr Cys Leu Ser Ser Arg Leu Arg Val Ser Ala
65 70 75 80

Thr Phe Trp His Asn Pro Arg Asn His Phe Arg Cys Gln Val Gln Phe
85 90 95

His Gly Leu Ser Glu Glu Asp Lys Trp Pro Glu Gly Ser Pro Lys Pro
100 105 110

Val Thr Gln Asn Ile Ser Ala Glu Ala Trp Gly Arg Ala Asp
115 120 125

<210> 13

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<213> Mus musculus

<400> 13

Glu Ser Gly Thr Phe Ile Thr Asp Lys Thr Val Leu Asp Met Lys Ala
1 5 10 15

Met Asp Ser Lys
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<210> 14

<211> 20

<212> PRT

<213> Mus musculus

<400> 14

Lys Thr Met Glu Ser Gly Thr Phe Ile Thr Asp Lys Thr Val Leu Asp
1 5 10 15

Met Lys Ala Met
20

<210> 15

<211> 20

<212> PRT

<213> Mus musculus

<400> 15

Tyr Ile Gln Asn Pro Glu Pro Ala Val Tyr Gln Leu Lys Asp Pro Arg
1 5 10 15

Ser Gln Asp Ser
20

<210> 16

<211> 20

<212> PRT

<213> Mus musculus

<400> 16

Ala Val Tyr Gln Leu Lys Asp Pro Arg Ser Gln Asp Ser Thr Leu Cys
1 5 10 15

Leu Phe Thr Asp
20

<210> 17

<211> 20

<212> PRT

<213> Mus musculus

<400> 17

Asn Gly Arg Glu Val His Ser Gly Val Ser Thr Asp Pro Gln Ala Tyr
1 5 10 15

Lys Glu Ser Asn
20

<210> 18

<211> 20

<212> PRT

<213> Mus musculus

<400> 18

Lys Glu Ser Asn Tyr Ser Tyr Cys Leu Ser Ser Arg Leu Arg Val Ser
1 5 10 15

Ala Thr Phe Trp
20

<210> 19

<211> 20

<212> PRT

<213> Mus musculus

<400> 19

Pro Pro Lys Val Ser Leu Phe Glu Pro Ser Lys Ala Glu Ile Ala Asn
1 5 10 15

Lys Gln Lys Ala
20

<210> 20

<211> 20

<212> PRT

<213> Mus musculus

<400> 20

Arg Glu Val His Ser Gly Val Ser Thr Asp Pro Gln Ala Tyr Lys Glu
1 5 10 15

Ser Asn Tyr Ser
20

<210> 21

<211> 20

<212> PRT

<213> Mus musculus

<400> 21

Val Thr Pro Pro Lys Val Ser Leu Phe Glu Pro Ser Lys Ala Glu Ile
1 5 10 15

Ala Asn Lys Gln
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<210> 22

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<400> 22
cacagacaaa tgtgtgctag acat 24

<210> 23

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<223> Primer

<400> 23
atgtctagca cacatttgtc tgtg 24

<210> 24

<211> 21

<212> DNA

<213> Artificial sequence

<220>

<223> Primer

<400> 24
cagtggggtc tgcacagacc c 21

<210> 25

<211> 21

<212> DNA

<213> Artificial sequence

<220>

<223> Primer

<400> 25
gggtctgtgc agaccccact g 21

<210> 26

<211> 37

<212> DNA

<213> Artificial sequence

<220>

<223> Primer

<400> 26
ccaaggccat atgcagaagg aagtggagca gaactct 37

<210> 27

<211> 45

<212> DNA

<213> Artificial sequence

<220>

<223> Primer

<400> 27
ttgggcccgc cggatccgcc cccgggggaa ctttctgggc tgggg 45

<210> 28

<211> 45

<212> DNA

<213> Artificial sequence

<220>

<223> Primer

<400> 28
tcccccgggg gcggatccgg cgggcccaac gctggtgtca ctcag 45

<210> 29

<211> 32

<212> DNA

<213> Artificial sequence

<220>

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<400> 29
gggaagctta gtctgctcta ccccaggcct cg 32

<210> 30

<211> 39

<212> DNA

<213> Artificial sequence

<220>

<223> Primer

<400> 30
ccgggggtgg ctctggcggt ggcggttcag gcggtggcg 39

<210> 31

<211> 39

<212> DNA

<213> Artificial sequence

<220>

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<400> 31
gatccgccac cgcctgaacc gccaccgcca gagccaccc 39

<210> 32

<211> 37

<212> DNA

<213> Artificial sequence

<220>

<223> Primer

<400> 32
gcggatccgg cggtggcggt tcgggtggcg gtggctc 37

<210> 33

<211> 38

<212> DNA

<213> Artificial sequence

<220>

<223> Primer

<400> 33
gtgggcccgc caccgcctga gccaccgcca cccgaacc 38

<210> 34

<211> 35

<212> PRT

<213> Artificial sequence

<220>

<223> scTCR Linker

<400> 34

Pro Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
20 25 30

Gly Gly Pro
35

<210> 35

<211> 621

<212> DNA

<213> Homo sapiens

<400> 35
atgcagaagg aagtggagca gaactctgga cccctcagtg ttccagaggg agccattgcc 60

tctctcaact gcacttacag tgaccgaggt tcccagtcct tcttctggta cagacaatat 120

tctgggaaaa gccctgagtt gataatgtcc atatactcca atggtgacaa agaagatgga 180

aggtttacag cacagctcaa taaagccagc cagtatgttt ctctgctcat cagagactcc 240

cagcccagtg attcagccac ctacctctgt gccgttacaa ctgacagctg ggggaaattg 300

cagtttggag cagggaccca ggttgtggtc accccagata tccagaaccc tgaccctgcc 360

gtgtaccagc tgagagactc taaatccagt gacaagtctg tctgcctatt caccgatttt 420

gattctcaaa caaatgtgtc acaaagtaag gattctgatg tgtatatcac agacaaatgt 480

gtgctagaca tgaggtctat ggacttcaag agcaacagtg ctgtggcctg gagcaacaaa 540

tctgactttg catgtgcaaa cgccttcaac aacagcatta ttccagaaga caccttcttc 600

cccagcccag aaagttccta a 621

<210> 36

<211> 741

<212> DNA

<213> Homo sapiens

<400> 36
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acactgcagt gtgcccagga tatgaaccat gaatacatgt cctggtatcg acaagaccca 120

ggcatggggc tgaggctgat tcattactca gttggtgctg gtatcactga ccaaggagaa 180

gtccccaatg gctacaatgt ctccagatca accacagagg atttcccgct caggctgctg 240

tcggctgctc cctcccagac atctgtgtac ttctgtgcca gcaggccggg actagcggga 300

gggcgaccag agcagtactt cgggccgggc accaggctca cggtcacaga ggacctgaaa 360

aacgtgttcc cacccgaggt cgctgtgttt gagccatcag aagcagagat ctcccacacc 420

caaaaggcca cactggtgtg cctggccaca ggcttctacc ccgaccacgt ggagctgagc 480

tggtgggtga atgggaagga ggtgcacagt ggggtctgca cagacccgca gcccctcaag 540

gagcagcccg ccctcaatga ctccagatac gctctgagca gccgcctgag ggtctcggcc 600

accttctggc aggacccccg caaccacttc cgctgtcaag tccagttcta cgggctctcg 660

gagaatgacg agtggaccca ggatagggcc aaacccgtca cccagatcgt cagcgccgag 720

gcctggggta gagcagacta a 741

<210> 37

<211> 206

<212> PRT

<213> Homo sapiens

<400> 37

Met Gln Lys Glu Val Glu Gln Asn Ser Gly Pro Leu Ser Val Pro Glu
1 5 10 15

Gly Ala Ile Ala Ser Leu Asn Cys Thr Tyr Ser Asp Arg Gly Ser Gln
20 25 30

Ser Phe Phe Trp Tyr Arg Gln Tyr Ser Gly Lys Ser Pro Glu Leu Ile
35 40 45

Met Ser Ile Tyr Ser Asn Gly Asp Lys Glu Asp Gly Arg Phe Thr Ala
50 55 60

Gln Leu Asn Lys Ala Ser Gln Tyr Val Ser Leu Leu Ile Arg Asp Ser
65 70 75 80

Gln Pro Ser Asp Ser Ala Thr Tyr Leu Cys Ala Val Thr Thr Asp Ser
85 90 95

Trp Gly Lys Leu Gln Phe Gly Ala Gly Thr Gln Val Val Val Thr Pro
100 105 110

Asp Ile Gln Asn Pro Asp Pro Ala Val Tyr Gln Leu Arg Asp Ser Lys
115 120 125

Ser Ser Asp Lys Ser Val Cys Leu Phe Thr Asp Phe Asp Ser Gln Thr
130 135 140

Asn Val Ser Gln Ser Lys Asp Ser Asp Val Tyr Ile Thr Asp Lys Cys
145 150 155 160

Val Leu Asp Met Arg Ser Met Asp Phe Lys Ser Asn Ser Ala Val Ala
165 170 175

Trp Ser Asn Lys Ser Asp Phe Ala Cys Ala Asn Ala Phe Asn Asn Ser
180 185 190

Ile Ile Pro Glu Asp Thr Phe Phe Pro Ser Pro Glu Ser Ser
195 200 205

<210> 38

<211> 246

<212> PRT

<213> Homo sapiens

<400> 38

Met Asn Ala Gly Val Thr Gln Thr Pro Lys Phe Gln Val Leu Lys Thr
1 5 10 15

Gly Gln Ser Met Thr Leu Gln Cys Ala Gln Asp Met Asn His Glu Tyr
20 25 30

Met Ser Trp Tyr Arg Gln Asp Pro Gly Met Gly Leu Arg Leu Ile His
35 40 45

Tyr Ser Val Gly Ala Gly Ile Thr Asp Gln Gly Glu Val Pro Asn Gly
50 55 60

Tyr Asn Val Ser Arg Ser Thr Thr Glu Asp Phe Pro Leu Arg Leu Leu
65 70 75 80

Ser Ala Ala Pro Ser Gln Thr Ser Val Tyr Phe Cys Ala Ser Arg Pro
85 90 95

Gly Leu Ala Gly Gly Arg Pro Glu Gln Tyr Phe Gly Pro Gly Thr Arg
100 105 110

Leu Thr Val Thr Glu Asp Leu Lys Asn Val Phe Pro Pro Glu Val Ala
115 120 125

Val Phe Glu Pro Ser Glu Ala Glu Ile Ser His Thr Gln Lys Ala Thr
130 135 140

Leu Val Cys Leu Ala Thr Gly Phe Tyr Pro Asp His Val Glu Leu Ser
145 150 155 160

Trp Trp Val Asn Gly Lys Glu Val His Ser Gly Val Cys Thr Asp Pro
165 170 175

Gln Pro Leu Lys Glu Gln Pro Ala Leu Asn Asp Ser Arg Tyr Ala Leu
180 185 190

Ser Ser Arg Leu Arg Val Ser Ala Thr Phe Trp Gln Asp Pro Arg Asn
195 200 205

His Phe Arg Cys Gln Val Gln Phe Tyr Gly Leu Ser Glu Asn Asp Glu
210 215 220

Trp Thr Gln Asp Arg Ala Lys Pro Val Thr Gln Ile Val Ser Ala Glu
225 230 235 240

Ala Trp Gly Arg Ala Asp
245

<210> 39

<211> 90

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA encoding scTCR linker

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cccgggggtg gctctggcgg tggcggttca ggcggtggcg gatccggcgg tggcggttcg 60

ggtggcggtg gctcaggcgg tggcgggccc 90

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<211> 1446

<212> DNA

<213> Artificial sequence

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<223> sc DiS TCR

<400> 40

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tctgggaaaa gccctgagtt gataatgtcc atatactcca atggtgacaa agaagatgga 180

aggtttacag cacagctcaa taaagccagc cagtatgttt ctctgctcat cagagactcc 240

cagcccagtg attcagccac ctacctctgt gccgttacaa ctgacagctg ggggaaattg 300

cagtttggag cagggaccca ggttgtggtc accccagata tccagaaccc tgaccctgcc 360

gtgtaccagc tgagagactc taaatccagt gacaagtctg tctgcctatt caccgatttt 420

gattctcaaa caaatgtgtc acaaagtaag gattctgatg tgtatatcac agacaaatgt 480

gtgctagaca tgaggtctat ggacttcaag agcaacagtg ctgtggcctg gagcaacaaa 540

tctgactttg catgtgcaaa cgccttcaac aacagcatta ttccagaaga caccttcttc 600

cccagcccag aaagttcccc cgggggtggc tctggcggtg gcggttcagg cggtggcgga 660

tccggcggtg gcggttcggg tggcggtggc tcaggcggtg gcgggcccaa cgctggtgtc 720

actcagaccc caaaattcca ggtcctgaag acaggacaga gcatgacact gcagtgtgcc 780

caggatatga accatgaata catgtcctgg tatcgacaag acccaggcat ggggctgagg 840

ctgattcatt actcagttgg tgctggtatc actgaccaag gagaagtccc caatggctac 900

aatgtctcca gatcaaccac agaggatttc ccgctcaggc tgctgtcggc tgctccctcc 960

cagacatctg tgtacttctg tgccagcagg ccgggactag cgggagggcg accagagcag 1020

tacttcgggc cgggcaccag gctcacggtc acagaggacc tgaaaaacgt gttcccaccc 1080

gaggtcgctg tgtttgagcc atcagaagca gagatctccc acacccaaaa ggccacactg 1140

gtgtgcctgg ccacaggctt ctaccccgac cacgtggagc tgagctggtg ggtgaatggg 1200

aaggaggtgc acagtggggt ctgcacagac ccgcagcccc tcaaggagca gcccgccctc 1260

aatgactcca gatacgctct gagcagccgc ctgagggtct cggccacctt ctggcaggac 1320

ccccgcaacc acttccgctg tcaagtccag ttctacgggc tctcggagaa tgacgagtgg 1380

acccaggata gggccaaacc cgtcacccag atcgtcagcg ccgaggcctg gggtagagca 1440

gactaa 1446

<210> 41

<211> 481

<212> PRT

<213> Artificial sequence

<220>

<223> sc DiS TCR

<400> 41

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Gly Ala Ile Ala Ser Leu Asn Cys Thr Tyr Ser Asp Arg Gly Ser Gln
            20                  25                  30

Ser Phe Phe Trp Tyr Arg Gln Tyr Ser Gly Lys Ser Pro Glu Leu Ile
        35                  40                  45

Met Ser Ile Tyr Ser Asn Gly Asp Lys Glu Asp Gly Arg Phe Thr Ala
    50                  55                  60

Gln Leu Asn Lys Ala Ser Gln Tyr Val Ser Leu Leu Ile Arg Asp Ser
65                  70                  75                  80

Gln Pro Ser Asp Ser Ala Thr Tyr Leu Cys Ala Val Thr Thr Asp Ser
                85                  90                  95

Trp Gly Lys Leu Gln Phe Gly Ala Gly Thr Gln Val Val Val Thr Pro
            100                 105                 110

Asp Ile Gln Asn Pro Asp Pro Ala Val Tyr Gln Leu Arg Asp Ser Lys
        115                 120                 125

Ser Ser Asp Lys Ser Val Cys Leu Phe Thr Asp Phe Asp Ser Gln Thr
    130                 135                 140

Asn Val Ser Gln Ser Lys Asp Ser Asp Val Tyr Ile Thr Asp Lys Cys
145                 150                 155                 160

Val Leu Asp Met Arg Ser Met Asp Phe Lys Ser Asn Ser Ala Val Ala
                165                 170                 175

Trp Ser Asn Lys Ser Asp Phe Ala Cys Ala Asn Ala Phe Asn Asn Ser
            180                 185                 190

Ile Ile Pro Glu Asp Thr Phe Phe Pro Ser Pro Glu Ser Ser Pro Gly
        195                 200                 205

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly
    210                 215                 220
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Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Pro Asn Ala Gly Val
225                 230                 235                 240

Thr Gln Thr Pro Lys Phe Gln Val Leu Lys Thr Gly Gln Ser Met Thr
                245                 250                 255

Leu Gln Cys Ala Gln Asp Met Asn His Glu Tyr Met Ser Trp Tyr Arg
            260                 265                 270

Gln Asp Pro Gly Met Gly Leu Arg Leu Ile His Tyr Ser Val Gly Ala
        275                 280                 285

Gly Ile Thr Asp Gln Gly Glu Val Pro Asn Gly Tyr Asn Val Ser Arg
    290                 295                 300

Ser Thr Thr Glu Asp Phe Pro Leu Arg Leu Leu Ser Ala Ala Pro Ser
305                 310                 315                 320

Gln Thr Ser Val Tyr Phe Cys Ala Ser Arg Pro Gly Leu Ala Gly Gly
                325                 330                 335

Arg Pro Glu Gln Tyr Phe Gly Pro Gly Thr Arg Leu Thr Val Thr Glu
            340                 345                 350

Asp Leu Lys Asn Val Phe Pro Pro Glu Val Ala Val Phe Glu Pro Ser
        355                 360                 365

Glu Ala Glu Ile Ser His Thr Gln Lys Ala Thr Leu Val Cys Leu Ala
    370                 375                 380

Thr Gly Phe Tyr Pro Asp His Val Glu Leu Ser Trp Trp Val Asn Gly
385                 390                 395                 400

Lys Glu Val His Ser Gly Val Cys Thr Asp Pro Gln Pro Leu Lys Glu
                405                 410                 415

Gln Pro Ala Leu Asn Asp Ser Arg Tyr Ala Leu Ser Ser Arg Leu Arg
            420                 425                 430

Val Ser Ala Thr Phe Trp Gln Asp Pro Arg Asn His Phe Arg Cys Gln
        435                 440                 445

Val Gln Phe Tyr Gly Leu Ser Glu Asn Asp Glu Trp Thr Gln Asp Arg
    450                 455                 460

Ala Lys Pro Val Thr Gln Ile Val Ser Ala Glu Ala Trp Gly Arg Ala
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465 470 475 480

Asp